

**DoD M&S Master Plan  
Update & Status Report  
to  
MSRR BOD  
Sept 4, 2001**

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# Discussion

- **Why we need an MSMP at the DoD (enterprise) level**
  - Establish/identify major DoD M&S challenges
    - Common focus for Component-level plans
  - Framework to manage/chart the progress toward the DoD M&S Vision
    - Demonstrate Integration & Cooperation
    - Identify and de-conflict Resource issues
    - Establish & describe Departmental priorities
  - Provides the means for M&S to make the DoD more effective and efficient
  - A reference document for the USD(AT&L) to use in support and defense of M&S

# **REFRESHER: What this Plan IS**

- **Common, inter-related DoD M&S objectives focused on what's important to the Department of Defense**
- **A policy statement that affords DoD Components maximum leeway to address common M&S objectives from their own perspectives**
- **A strategic-level document to focus the Department's efforts to make M&S more affordable, usable, interoperable, reuseable, etc**
- **The outline of a process and goals for the EXCIMS and USD(AT&L) to use to ensure M&S increases the efficiency and effectiveness of the Department's full array of missions and functions**
- **The "WHAT is to be done" but not the "HOW it is to be done"**

# **REFRESHER: What this Plan IS NOT**

- **A detailed explanation of how objectives and milestones will be met**
- **An unfunded mandate requiring Components to focus exclusively on listed objectives and sub-objectives**
- **A new requirement to develop DoD and Component M&S Master and Investment Plans—already required by DoD Directive 5000.59**
- **A delineation of new responsibilities for the EXCIMS**
- **A DMSO Master Plan or the DMSO's role in executing the plan**
- **A substitute for guidance or direction that should be developed by individual OSD and DoD Components**
- **About the use/application of M&S in any one functional area or domain**

# Strategic perspective on DoD MSMP

- Common focus for Component-level plans
  - A guide? (*no*)
  - How to? (*no*)
    - Tell the Components what to do? (*no*)
    - Tell the Components how to do it? (*no*)
    - Tell the Components when to do it? (*no*)

Describes **What** needs to be done...leaves how up to you...

# **Responses to-date:**

## **(A General Characterization)**

**There appears to be general agreement that:**

- **The 5 Objectives are valid**
  - **There are too many sub-objectives**
  - **There are too many milestones**
  - **There should be an assignment of responsibilities**
  - **The plan should remain at the strategic-level**
  - **The format must be conducive to Component flexibility**
- 
- **NOTE: Approximately 50% response so far - (end of July due date)**

# **Responses to-date:**

(A General Characterization)

**There are differing views:**

**Sub-objectives & Milestones...**

**are either:**

- too aggressive,**
- already complete,**
- or too hard to do**

**Draft DoD MSMP...**

**is either:**

- an unintegrated collection of miscellany,**
- or too detailed,**
- or well written**

# **Responses to-date:**

## **(A General Characterization)**

**There are differing views on metrics :**

- Metrics (as part of milestones) need to be:**
  - Left as is**
  - Tightened**
  - Loosened**
  - Deleted**
  - Redefined**



# **Responses to-date:**

## **(A General Characterization)**

**There are differing views on expectations...  
i.e. “where is:**

- **DMSO? SEDRIS? HLA? Warfighter? C4I-to-Simulation?**
- **JSIMS/JWARS/JMASS/[*your simulation here*]?**
- **JV 2020?**
- **Defense Transportation System?**
- **DoD/Joint Mission Areas?**
- **SBA?**
- **Etc?**

# **Proposed Fixes**

- **Establish and agree on Overall performance management-type goal (discussion to follow)**
- **Reduce number of sub-objectives**
- **List main objectives “up front”**
- **Move sub-objectives to enclosure**
- **Address perceived sub-objective overlap**
  - **integrate across sub-objectives**
- **Re-address metrics & milestones - fewer?**

**No prescribed or mandated Component priorities or resource assignments**

**Ownership of management responsibilities unchanged**

**Component flexibility remains foremost**

# Summary / Conclusion

- **Still awaiting inputs from some EXCIMS Members**

- **The story so far:**

- **General consensus on objectives**
- **Smaller document needed**
- **Performance Management**

- ...

- ...

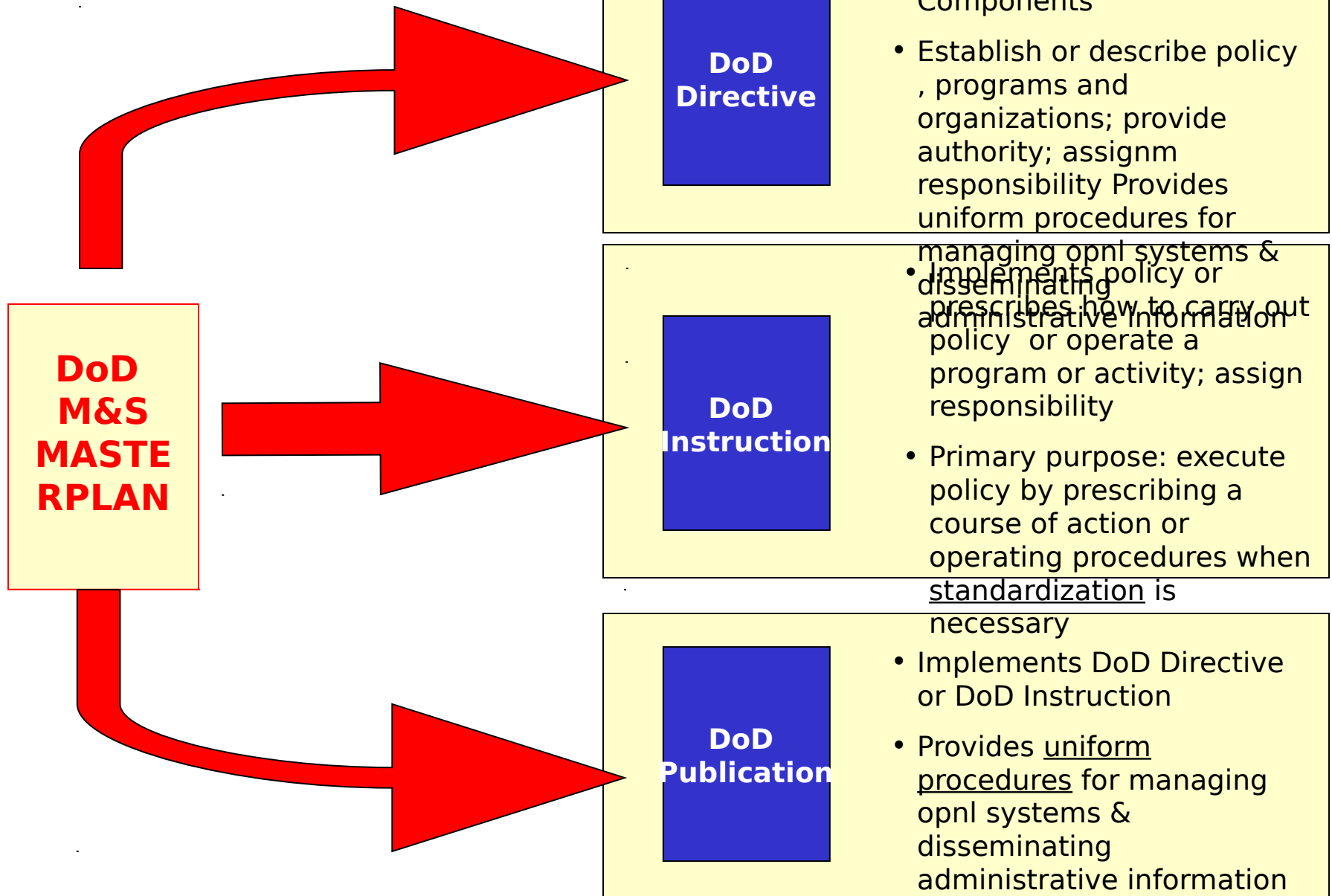
- **Thanks for Your Hard Work**

- Fair amount of effort expended
- Many thoughtful ideas and suggestion received

# Next steps

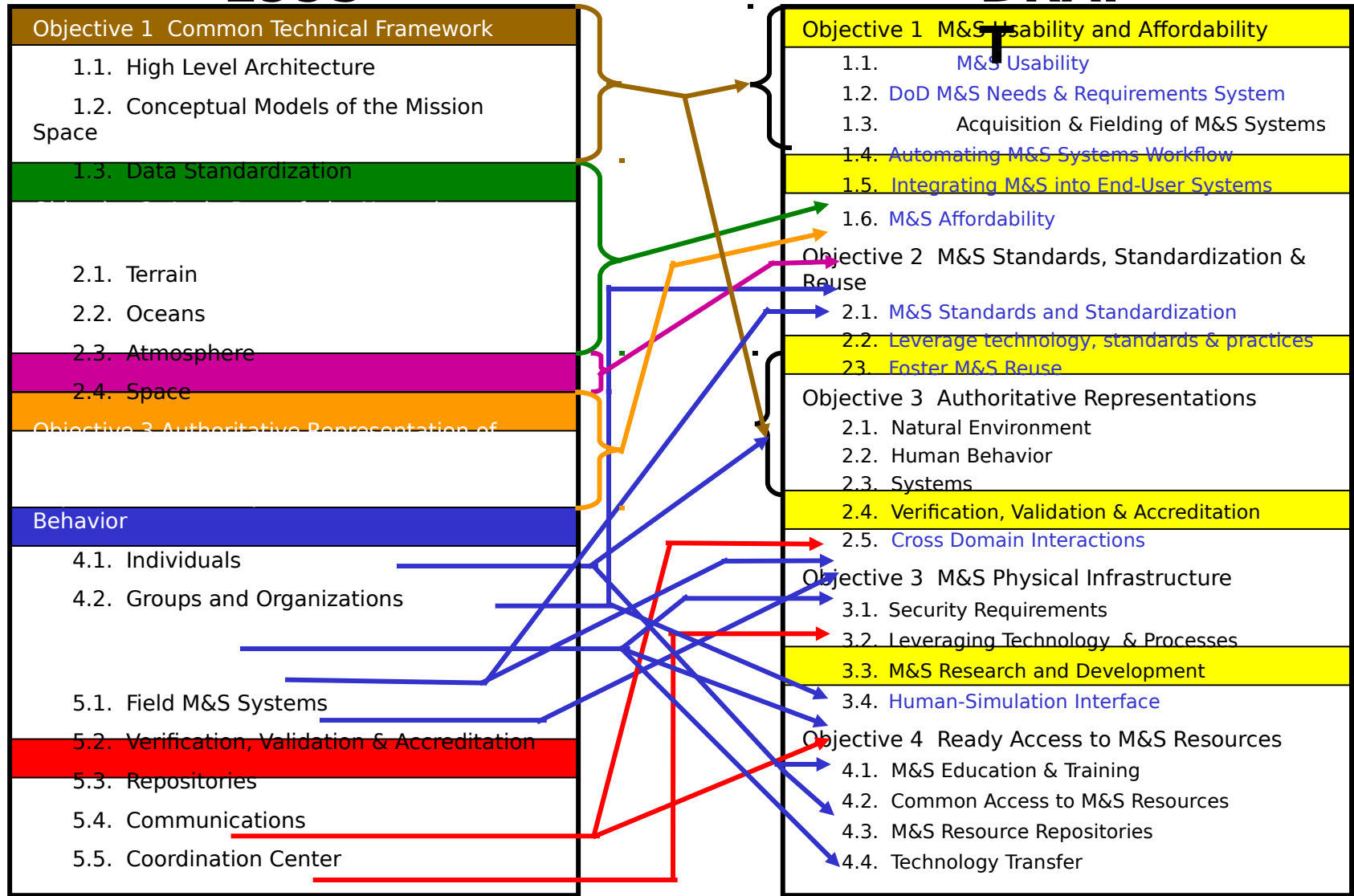
**Back up Slides**

# Alternatives



# 1995 and Draft M&S Master Plan

## Objectives: Mapping

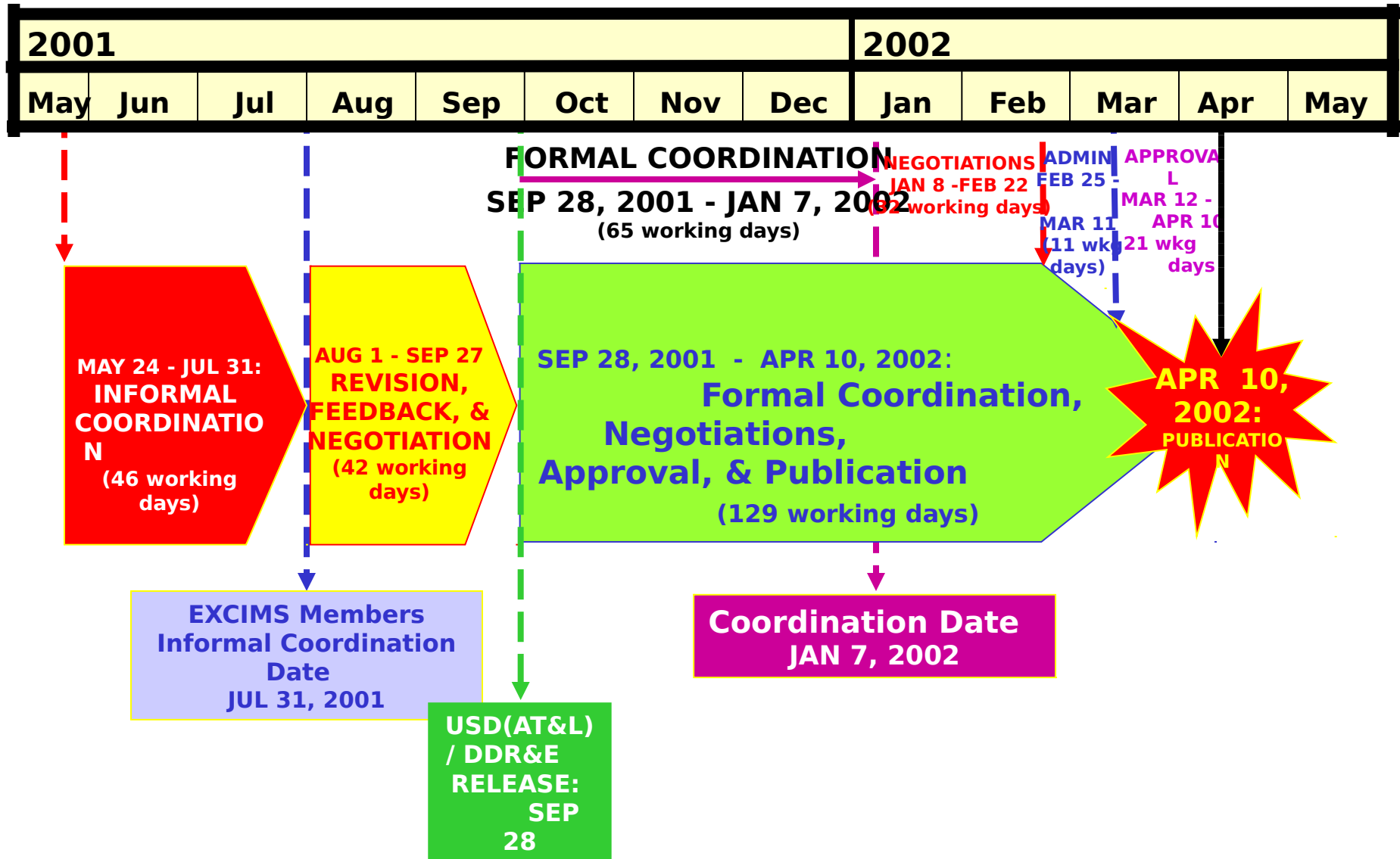


**DERIVED** sub-objectives

# DoD M&S Master Plan

## Timeline:

### May 2001 - May 2002





# DoD M&S Vision

Defense modeling and simulation will provide readily-available, operationally-valid environments for use by DoD components

- **to train jointly, develop doctrine and tactics, formulate operational plans, and assess war fighting situations**
- **as well as to support technology assessment, system upgrade, prototype and full scale development, and force structuring.**

Furthermore, common use of these environments will promote a closer interaction between the operations and acquisition communities in carrying out their respective responsibilities. To allow maximum utility and flexibility, these modeling and simulation environments will be constructed from affordable, reusable components interoperating through an open systems architecture.

**Approved by the USD(A) at March 12, 1992, DoD EXCIMS Mtg & Reaffirmed by the EXCIMS at their May 12, 1999, Meeting**

# Draft DoD M&S Objectives

## OBJECTIVE 1

**M&S USABILITY  
AND  
AFFORDABILITY**

### SUB-OBJECTIVES:

- 1.1 M&S USABILITY
- 1.2. DoD M&S  
NEEDS &  
REQUIREMENTS  
SYSTEM
- 1.3. ACQUISITION &  
FIELDING OF M&S  
SYSTEMS
- 1.4. AUTOMATING M&S  
SYSTEM SUPPORT
- 1.5. INTEGRATING M&S  
INTO END-USER  
SYSTEMS
- 1.6. M&S  
AFFORDABILITY

## OBJECTIVE 2

**M&S  
INTEROPERABI  
LITY & REUSE**

### SUB-OBJECTIVES:

- 2.1. STANDARDS &  
STANDARDIZATION  
PROGRAM
- 2.2. COMMERCIAL  
TECHNOLOGIES
- 2.3. M&S REUSE

## OBJECTIVE 3

**AUTHORITATIVE  
REPRESENTATION  
S**

### SUB-OBJECTIVES:

- 3.1 ENVIRONMENTAL  
REPRESENTATIONS
- 3.2. HUMAN  
BEHAVIOR  
REPRESENTATIONS
- 3.3. SYSTEMS  
REPRESENTATIONS
- 3.4. VERIFICATION,  
VALIDATION, &  
ACCREDITATION  
(VV&A)
- 3.5. CROSS-  
DOMAIN  
INTERACTIONS

## OBJECTIVE 4

**DoD M&S  
INFRASTRUCTUR  
E**

### SUB-OBJECTIVES:

- 4.1 SECURITY  
REQUIREMENTS
- 4.2. LEVERAGING  
TECHNOLOGIES  
& PROCESSES
- 4.3. M&S  
RESEARCH &  
DEVELOPMENT
- 4.4. HUMAN  
SIMULATION  
INTERFACE

## OBJECTIVE 5

**READY ACCESS  
TO  
M&S RESOURCES**

### SUB-OBJECTIVES:

- 5.1 M&S EDUCATION  
& TRAINING
- 5.2. READY  
ACCESS TO M&S  
RESOURCES
- 5.3. M&S RESOURCE  
REPOSITORIES
- 5.4. M&S  
TECHNOLOGY  
TRANSFER

# DRAFT Master Plan Milestones

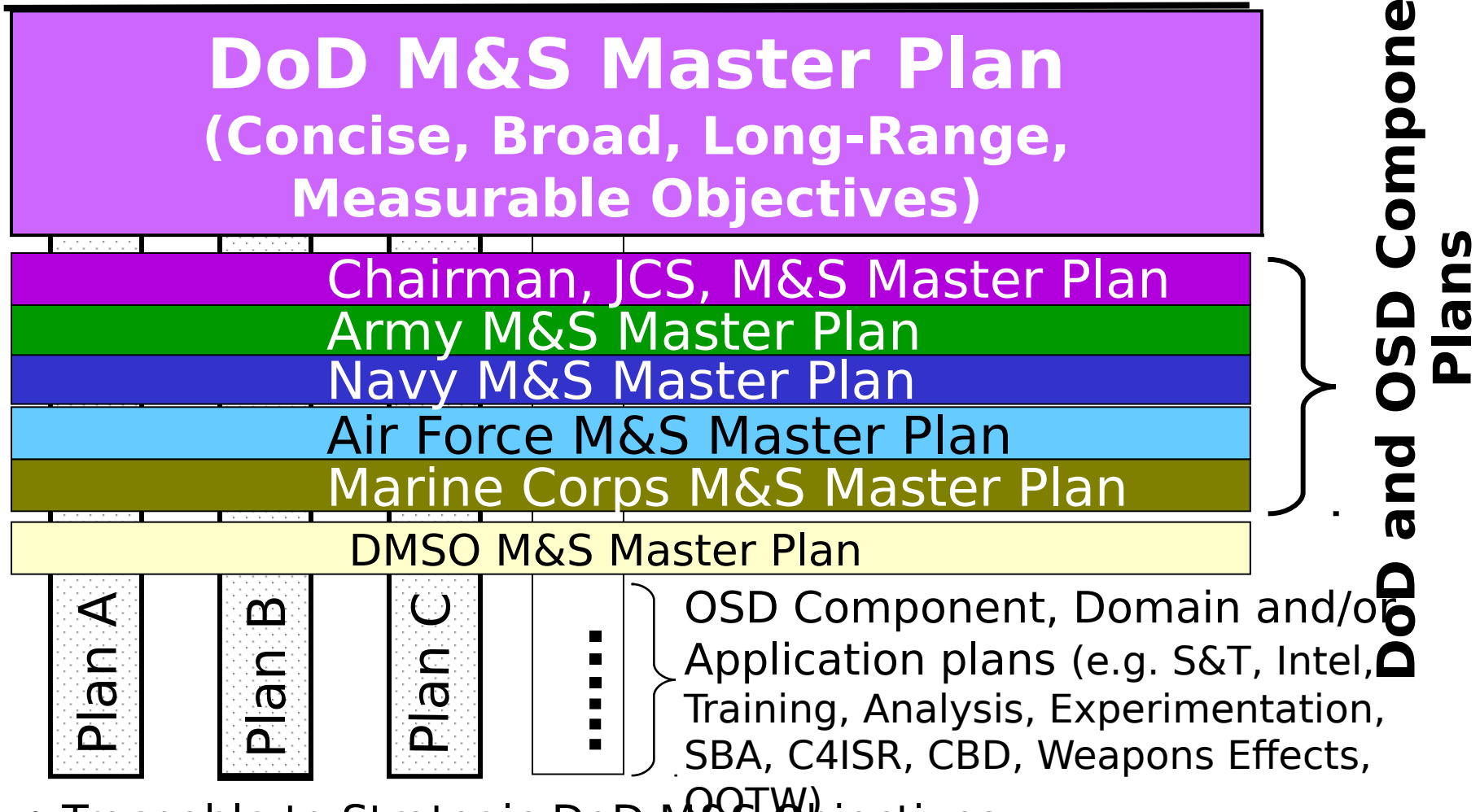
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Legend:  
term

Short-term

Long-

# Relationship



- Traceable to Strategic DoD M&S Objectives
- Milestones
- Investments